

# Recombinant Human ALG1, GST-tagged

**Cat. No.** ALG1-9569H    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                    |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Human ALG1 protein, fused to GST-tag, was expressed in E.coli and purified by GSH-sepharose.                                                                                           |
| <b>Species</b>          | Human                                                                                                                                                                                              |
| <b>Source</b>           | E.coli                                                                                                                                                                                             |
| <b>ProteinLength</b>    | C-term-308a.a.                                                                                                                                                                                     |
| <b>Description</b>      | The enzyme encoded by this gene catalyzes the first mannosylation step in the biosynthesis of lipid-linked oligosaccharides. This gene is mutated in congenital disorder of glycosylation type Ik. |
| <b>Storage</b>          | The protein is stored in PBS buffer at -20°C. Avoid repeated freezing and thawing cycles.                                                                                                          |
| <b>Storage Buffer</b>   | 1M PBS (58mM Na <sub>2</sub> HPO <sub>4</sub> , 17mM NaH <sub>2</sub> PO <sub>4</sub> , 68mM NaCl, pH8. ) added with 100mM GSH and 1% Triton X-100, 15% glycerol.                                  |

## GENE INFORMATION

|                        |                                                                                                                               |
|------------------------|-------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | ALG1 asparagine-linked glycosylation 1, beta-1,4-mannosyltransferase homolog ( <i>S. cerevisiae</i> ) [ <i>Homo sapiens</i> ] |
| <b>Official Symbol</b> | ALG1                                                                                                                          |

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|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Synonyms</b>            | ALG1; asparagine-linked glycosylation 1, beta-1,4-mannosyltransferase homolog (S. cerevisiae); asparagine linked glycosylation 1 homolog (yeast, beta 1,4 mannosyltransferase); chitobiosyldiphosphodolichol beta-mannosyltransferase; HMT1; HMT 1; mannosyltransferase-1; beta-1,4 mannosyltransferase; beta-1,4-mannosyltransferase; GDP-Man:GlcNAc2-PP-dolichol mannosyltransferase; asparagine-linked glycosylation protein 1 homolog; GDP-mannose-dolichol diphosphochitobiose mannosyltransferase; asparagine-linked glycosylation 1 homolog (yeast, beta-1,4-mannosyltransferase); HMT1; MT-1; CDG1K; HMT-1; Mat-1; hMat-1; |
| <b>Gene ID</b>             | <a href="#">56052</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>mRNA Refseq</b>         | <a href="#">NM_019109</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Protein Refseq</b>      | <a href="#">NP_061982</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>MIM</b>                 | <a href="#">605907</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>UniProt ID</b>          | <a href="#">Q9BT22</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Chromosome Location</b> | 16p13.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Pathway</b>             | Asparagine N-linked glycosylation, organism-specific biosystem; Biosynthesis of the N-glycan precursor (dolichol lipid-linked oligosaccharide, LLO) and transfer to a nascent protein, organism-specific biosystem; Metabolic pathways, organism-specific biosystem; Metabolism of proteins, organism-specific biosystem; N-Glycan biosynthesis, organism-specific biosystem; N-Glycan biosynthesis, conserved biosystem; N-glycan precursor biosynthesis, organism-specific biosystem;                                                                                                                                            |
| <b>Function</b>            | chitobiosyldiphosphodolichol beta-mannosyltransferase activity; mannosyltransferase                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

activity; transferase activity, transferring glycosyl groups;

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